

# biblatex-phys – A biblatex implementation of the AIP and APS bibliography style\*

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This package provides a style for `biblatex` which follows the guidelines of the AIP and APS. The citation style is numeric and unsorted. The bibliography style follows the pattern of the official REVTeX class (<http://ctan.org/pkg/revtex>). The style should be loaded in the usual way

```
\usepackage[style=phys]{biblatex}
```

Load-time options are provided to deal with the small number of variations between the AIP and APS styles. The References section of this document demonstrates the format generated by the package using the `biblatex-phys.bib` database of example citations.

The styles use the standard `biblatex` database requirements. This means that a database designed for traditional `biblatex` use may need some editing for optimal output. The accompanying example database `biblatex-phys.bib` shows examples of all of the supported entry types with common fields filled in.

## 1 Style options

All of the styles here add a small number of package options to the standard set provided by `biblatex`. This allows the styles to cover the variations seen between the AIP and APS styles.

<code>doi</code>	The standard style options <code>doi</code> , <code>eprint isbn</code> and <code>eprint</code> , as described in the
<code>eprint</code>	<code>biblatex</code> manual. However, these options are turned off as standard by the <code>phys</code>
<code>isbn</code>	style. This reflects the fact that these entries may be present in reference databases
<code>url</code>	but are not generally included in published bibliographies. Note that DOI values
	are printed for journal articles with no pages given, even if the <code>doi</code> option is <code>false</code> .
<code>subentry</code>	In common with the standard <code>biblatex</code> numeric styles, all of the styles in the
	bundle support the boolean <code>subentry</code> option. With this set <code>true</code> , entries of type
	<code>set</code> are given individual labels within the bibliography.
<code>articletitle</code>	The use of article titles varies between the AIP and APS styles. The boolean
	option <code>articletitle</code> is available to control this behaviour. The standard settings
	is <code>true</code> , which follows the guidelines of the AIP: it should be set to <code>false</code> to follow
	the APS style. (This option also applies to the titles of proceedings entries and
	patents, which are treated in the same way.)
<code>biblabel</code>	The format of the numbers used in the bibliography (the “bibliography label”)

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\*This file describes v0.9e, last revised 2013/02/15.

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varies. The `biblabeled` option allows the user to easily set the format used. This option takes a values `superscript` (the standard setting) and `brackets`.

**chaptertitle** Printing chapter titles for `incollection` entries is part of the AIP style but is not part of the APS style. The `chaptertitle` option can be used to control this.

**pageranges** The inclusion of the full page range of journal articles varies between the AIP and APS styles. The boolean option `pageranges` is available to control this behaviour. The standard settings is `true`, which follows the guidelines of the AIP and prints the full range: it should be set to `false` to follow the APS style, which will result in only the first page being printed.

## 1.1 aip and aps styles

As detailed above, the standard settings follow the AIP style. To obtain the APS style, use

```
\usepackage[%
  style=phys,%
  articletitle=false,biblabeled=brackets,%
  chaptertitle=false,pageranges=false%
]
{biblatex}
```

## 2 url formatting

The style uses the `url` package to format hyperlinks. As such, the format of these is left to the document author to alter. The `\urlstyle` command may be used to alter this, either for the whole document or only for the bibliography, for example by using

```
\AtBeginBibliography{%
  \urlstyle{rm}%
}
```

## 3 Interaction with babel

In common with other `biblatex` styles, `biblatex-phys` uses the `csquotes` package mechanism to place article titles in quotation marks. This means that the formatting of these will depend on the `babel` language in use. Full details are covered in the manuals for `biblatex` and `csquotes`.

## 4 Errors and omissions

Suggestions for improvement and bug reports can be logged in the package issue database, found at <https://bitbucket.org/josephwright/biblatex-phys/issues>, or can be sent by e-mail to [joseph.wright@morningstar2.co.uk](mailto:joseph.wright@morningstar2.co.uk).

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## Change History

v0.9a		<b>article</b> entries, consistent with <b>online</b> behaviour . . . . . 2
General: Detect and remove repeated information in entry sets at any position in the set . . . . . 2	v0.9c	General: Link article publication details using DOI, URL or arXiv eprint . . . . . 2
v0.9b		Titles in sentence case . . . . . 2
General: Enable use of <b>firstinits</b> option . . . . . 2	v0.9d	General: Correctly include “related” material (Biber-only) . . . . . 2
Fix handling of <b>doi</b> field for <b>article</b> entries . . . . . 2		
Print <b>doi</b> or <b>url</b> after year for		

Improve arXiv formatting . . . . .	2	of article titles (introduced in	
Link book titles using DOI or URL	2	v0.9c) . . . . .	2
Minor fix for book formatting . .	2	v0.9e	
Update journal title printing so case is unchanged by processing		General: Link “related” articles us- ing DOI or URL . . . . .	2